

Xiangbo Meng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

4,781
citations

37
h-index

69
g-index

86
ext. papers

5,380
ext. citations

7.5
avg, IF

6.12
L-index

#	Paper	IF	Citations
78	Atomic layer deposition of lithium zirconium oxides for the improved performance of lithium-ion batteries.. <i>Dalton Transactions</i> , 2022 ,	4.3	1
77	Synthesis of nanostructured materials via atomic and molecular layer deposition 2022 ,		
76	High-performance LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ cathode by nanoscale lithium sulfide coating via atomic layer deposition. <i>Journal of Energy Chemistry</i> , 2022 , 69, 531-540	12	0
75	Atomic-scale constituting stable interface for improved LiNiMnCoO cathodes of lithium-ion batteries. <i>Nanotechnology</i> , 2021 , 32, 115401	3.4	5
74	Fabrication and Testing of Bioinspired Surface Designs for Friction Reduction at the Piston Ring and Liner Interface. <i>Journal of Tribology</i> , 2021 , 143,	1.8	3
73	Atomic Layer Deposition of High-Capacity Anodes for Next-Generation Lithium-Ion Batteries and Beyond. <i>Energy and Environmental Materials</i> , 2021 , 4, 363-391	13	15
72	Atomic and molecular layer deposition in pursuing better batteries. <i>Journal of Materials Research</i> , 2021 , 36, 2-25	2.5	9
71	Molecular Layer Deposition of Crosslinked Polymeric Lithicone for Superior Lithium Metal Anodes. <i>Energy Material Advances</i> , 2021 , 2021, 1-16	1	3
70	Atomic-scale tuned interface of nickel-rich cathode for enhanced electrochemical performance in lithium-ion batteries. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 77-86	9.1	15
69	Atomic layer deposition of solid-state electrolytes for next-generation lithium-ion batteries and beyond: Opportunities and challenges. <i>Energy Storage Materials</i> , 2020 , 30, 296-328	19.4	30
68	Atomic Layer Deposition of Two-Dimensional Layered Materials: Processes, Growth Mechanisms, and Characteristics. <i>Matter</i> , 2020 , 2, 587-630	12.7	47
67	Fabrication and friction characteristics of arbitrary biosurfaces. <i>Biointerphases</i> , 2020 , 15, 061016	1.8	1
66	Atomic layer deposition of zirconium oxide thin films. <i>Journal of Materials Research</i> , 2020 , 35, 804-812	2.5	9
65	Nitrogen-doped graphene-wrapped Cu ₂ S as a superior anode in sodium-ion batteries. <i>Carbon</i> , 2020 , 170, 430-438	10.4	7
64	Interfacial Stabilization of a Graphene-Wrapped Cu ₂ S Anode for High-Performance Sodium-Ion Batteries via Atomic Layer Deposition. <i>Journal of Composites Science</i> , 2020 , 4, 184	3	
63	Insight into the correlation of PtSupport interactions with electrocatalytic activity and durability in fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9420-9446	13	24
62	Unravelling the synergy effects of defect-rich 1T-MoS ₂ /carbon nanotubes for the hydrogen evolution reaction by experimental and calculational studies. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2100-2110	5.8	15

61	Surface Modification for Suppressing Interfacial Parasitic Reactions of a Nickel-Rich Lithium-Ion Cathode. <i>Chemistry of Materials</i> , 2019 , 31, 2723-2730	9.6	68
60	CuS and Cu ₂ S as Cathode Materials for Lithium Batteries: A Review. <i>ChemElectroChem</i> , 2019 , 6, 2825-2840	4.3	34
59	A revisit to atomic layer deposition of zinc oxide using diethylzinc and water as precursors. <i>Journal of Materials Science</i> , 2019 , 54, 5236-5248	4.3	21
58	High-Performance 3D Pinecone-Like LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1800769	3.5	6
57	Modifying the Surface of a High-Voltage Lithium-Ion Cathode. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2254-2260	6.1	31
56	Facile assembly of Ni(OH) ₂ nanosheets on nitrogen-doped carbon nanotubes network as high-performance electrocatalyst for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 766-773	5.7	34
55	Cobalt oxide nanosheets anchored onto nitrogen-doped carbon nanotubes as dual purpose electrodes for lithium-ion batteries and oxygen evolution reaction. <i>International Journal of Energy Research</i> , 2018 , 42, 853-862	4.5	26
54	Atomic and Molecular Layer Deposition for Superior Lithium-Sulfur Batteries: Strategies, Performance, and Mechanisms. <i>Batteries and Supercaps</i> , 2018 , 1, 41-68	5.6	43
53	Novel nanostructured materials by atomic and molecular layer deposition. <i>AIMS Materials Science</i> , 2018 , 5, 957-999	1.9	7
52	Metallic 1T-MoS ₂ nanosheets and their composite materials: Preparation, properties and emerging applications. <i>Materials Today Energy</i> , 2018 , 10, 264-279	7	39
51	Atomic and Molecular Layer Deposition for Superior Lithium-Sulfur Batteries: Strategies, Performance, and Mechanisms. <i>Batteries and Supercaps</i> , 2018 , 1, 40-40	5.6	2
50	Atomic-scale surface modifications and novel electrode designs for high-performance sodium-ion batteries via atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10127-10149	13	46
49	High-Performance High-Loading Lithium-Sulfur Batteries by Low Temperature Atomic Layer Deposition of Aluminum Oxide on Nanophase S Cathodes. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700096	4.6	19
48	Atomic layer deposition for nanomaterial synthesis and functionalization in energy technology. <i>Materials Horizons</i> , 2017 , 4, 133-154	14.4	119
47	Atomic Layer Deposition of Aluminum Sulfide: Growth Mechanism and Electrochemical Evaluation in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 9043-9052	9.6	35
46	Achieving High-Performance Silicon Anodes of Lithium-Ion Batteries via Atomic and Molecular Layer Deposited Surface Coatings: an Overview. <i>Electrochimica Acta</i> , 2017 , 251, 710-728	6.7	42
45	Energy Storage: High-Performance High-Loading Lithium-Sulfur Batteries by Low Temperature Atomic Layer Deposition of Aluminum Oxide on Nanophase S Cathodes (Adv. Mater. Interfaces 17/2017). <i>Advanced Materials Interfaces</i> , 2017 , 4,	4.6	2
44	An overview of molecular layer deposition for organic and organic/inorganic hybrid materials: mechanisms, growth characteristics, and promising applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18326-18378	13	135

43	Understanding the high-electrocatalytic performance of two-dimensional MoS ₂ nanosheets and their composite materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24540-24563	13	137
42	Lithium Self-Discharge and Its Prevention: Direct Visualization through In Situ Electrochemical Scanning Transmission Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 11194-11205	16.7	36
41	Atomic Layer Deposition of MnS: Phase Control and Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2774-80	9.5	47
40	Atomic Layer Deposition of Li _x Al _y S Solid-State Electrolytes for Stabilizing Lithium-Metal Anodes. <i>ChemElectroChem</i> , 2016 , 3, 858-863	4.3	82
39	Towards high-energy and durable lithium-ion batteries via atomic layer deposition: elegantly atomic-scale material design and surface modification. <i>Nanotechnology</i> , 2015 , 26, 020501	3.4	17
38	Atomic layer deposition derived amorphous TiO ₂ thin film decorating graphene nanosheets with superior rate capability. <i>Electrochemistry Communications</i> , 2015 , 57, 43-47	5.1	54
37	Tunable core-shell single-walled carbon nanotube-Cu ₂ S networked nanocomposites as high-performance cathodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 280, 621-629	8.9	47
36	Atomic layer deposition of metal sulfide materials. <i>Accounts of Chemical Research</i> , 2015 , 48, 341-8	24.3	145
35	Ultrathin Lithium-Ion Conducting Coatings for Increased Interfacial Stability in High Voltage Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 3128-3134	9.6	164
34	Effect of interface modifications on voltage fade in 0.5Li ₂ MnO ₃ /0.5LiNi _{0.375} Mn _{0.375} Co _{0.25} O ₂ cathode materials. <i>Journal of Power Sources</i> , 2014 , 249, 509-514	8.9	74
33	Nanoscale Investigation of Solid Electrolyte Interphase Inhibition on Li-Ion Battery MnO Electrodes via Atomic Layer Deposition of Al ₂ O ₃ . <i>Chemistry of Materials</i> , 2014 , 26, 935-940	9.6	50
32	Atomic Layer Deposition of Gallium Sulfide Films Using Hexakis(dimethylamido)digallium and Hydrogen Sulfide. <i>Chemistry of Materials</i> , 2014 , 26, 1029-1039	9.6	68
31	Vapor-phase atomic-controllable growth of amorphous Li ₂ S for high-performance lithium-sulfur batteries. <i>ACS Nano</i> , 2014 , 8, 10963-72	16.7	96
30	Electrochemical characterization of voltage fade of Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ cathode. <i>Solid State Ionics</i> , 2014 , 268, 231-235	3.3	20
29	Significant impact on cathode performance of lithium-ion batteries by precisely controlled metal oxide nanocoatings via atomic layer deposition. <i>Journal of Power Sources</i> , 2014 , 247, 57-69	8.9	178
28	Gallium Sulfide/Single-Walled Carbon Nanotube Composites: High-Performance Anodes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 5435-5442	15.6	78
27	TiSi ₂ O _x Coated N-Doped Carbon Nanotubes as Pt Catalyst Support for the Oxygen Reduction Reaction in PEMFCs. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15457-15467	3.8	43
26	Atomic layer deposited Li ₄ Ti ₅ O ₁₂ on nitrogen-doped carbon nanotubes. <i>RSC Advances</i> , 2013 , 3, 7285	3.7	47

25	Controllable atomic layer deposition of one-dimensional nanotubular TiO ₂ . <i>Applied Surface Science</i> , 2013 , 266, 132-140	6.7	50
24	PtSnO ₂ /nitrogen-doped CNT hybrid catalysts for proton-exchange membrane fuel cells (PEMFC): Effects of crystalline and amorphous SnO ₂ by atomic layer deposition. <i>Journal of Power Sources</i> , 2013 , 238, 144-149	8.9	37
23	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
22	Controlled synthesis of Zirconium Oxide on graphene nanosheets by atomic layer deposition and its growth mechanism. <i>Carbon</i> , 2013 , 52, 74-82	10.4	42
21	Spatially Sequential Growth of Various WSi ₂ Networked Nanostructures and Mechanisms. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19189-19194	3.8	12
20	High concentration nitrogen doped carbon nanotube anodes with superior Li ⁺ storage performance for lithium rechargeable battery application. <i>Journal of Power Sources</i> , 2012 , 197, 238-245	8.9	138
19	Nanoporous tree-like SiO ₂ films fabricated by sol-gel assisted electrostatic spray deposition. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 488-494	5.3	30
18	Crystallinity-Controlled Synthesis of Zirconium Oxide Thin Films on Nitrogen-Doped Carbon Nanotubes by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14656-14664	3.8	32
17	Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage. <i>Advanced Functional Materials</i> , 2012 , 22, 1647-1654	15.6	359
16	Batteries: Tin Oxide with Controlled Morphology and Crystallinity by Atomic Layer Deposition onto Graphene Nanosheets for Enhanced Lithium Storage (Adv. Funct. Mater. 8/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1646-1646	15.6	12
15	Emerging applications of atomic layer deposition for lithium-ion battery studies. <i>Advanced Materials</i> , 2012 , 24, 3589-615	24	436
14	Controllable synthesis of graphene-based titanium dioxide nanocomposites by atomic layer deposition. <i>Nanotechnology</i> , 2011 , 22, 165602	3.4	82
13	Superior cycle stability of nitrogen-doped graphene nanosheets as anodes for lithium ion batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 822-825	5.1	280
12	Atomic layer deposition assisted Pt-SnO ₂ hybrid catalysts on nitrogen-doped CNTs with enhanced electrocatalytic activities for low temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11085-11092	6.7	53
11	Heterostructural coaxial nanotubes of CNT@Fe ₂ O ₃ via atomic layer deposition: effects of surface functionalization and nitrogen-doping. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 1207-1218	2.3	37
10	Three growth modes and mechanisms for highly structure-tunable SnO ₂ nanotube arrays of template-directed atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12321		44
9	Nitrogen-doped carbon nanotubes coated by atomic layer deposited SnO ₂ with controlled morphology and phase. <i>Carbon</i> , 2011 , 49, 1133-1144	10.4	74
8	Non-Aqueous Approach to Synthesize Amorphous/Crystalline Metal Oxide-Graphene Nanosheet Hybrid Composites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18330-18337	3.8	70

7	The characteristics of particle charging and deposition during powder coating processes with ultrafine powder. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 065201	3	15
6	Characterization of particle size evolution of the deposited layer during electrostatic powder coating processes. <i>Powder Technology</i> , 2009 , 195, 264-270	5.2	16
5	Influences of different powders on the characteristics of particle charging and deposition in powder coating processes. <i>Journal of Electrostatics</i> , 2009 , 67, 663-671	1.7	16
4	A general empirical formula of current-voltage characteristics for point-to-plane geometry corona discharges. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 065209	3	60
3	The characteristics of particle charging and deposition during powder coating processes with coarse powder. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 195207	3	11
2	The characteristics of current density distribution during corona charging processes of different particulates. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 172007	3	6
1	Atomic and molecular layer deposition in pursuing better batteries. <i>Journal of Materials Research</i> , 1-24	2.5	0